

PolyOne Nanoblend™ LST 5571 Polypropylene, Unspecified (PP, Unspecified)

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

Nanoblend compounds, formerly known as Maxxam LST, are LIGHT, STIFF AND TOUGH. Using nanoclay technology, these compounds deliver a combination of high stiffness and impact resistance to meet demanding structural and durability requirements. At the same time, they offer the light weight, aesthetic and processing advantages that are more typical of polyolefins. Provisional Product Information - Physical and Mechanical properties based on initial production. Information provided by PolyOne

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Nanoblend-LST-5571-Polypropylene-Unspecified-PP-Unspecified.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.948 g/cc	0.948 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0060 - 0.0080 cm/cm	0.0060 - 0.0080 in/in	Internal Method

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	65	65	15 sec; ASTM D2240
	72	72	ASTM D2240
Tensile Strength, Yield	30.3 MPa	4390 psi	Type I, 51 mm/min; ASTM D638
Elongation at Break	19 %	19 %	Type I, 51 mm/min; ASTM D638
Tensile Modulus	2.76 GPa	400 ksi	Type I, 51 mm/min; ASTM D638
Flexural Strength	43.2 MPa	6270 psi	ASTM D790
Flexural Modulus	2.07 GPa	300 ksi	ASTM D790
Izod Impact, Notched	3.70 J/cm	6.93 ft-lb/in	Injection Molded; ASTM D256A
	@Thickness 3.18 mm, Temperature 23.0 °C	@Thickness 0.125 in, Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	46.0 µm/m-°C	25.6 µin/in-°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	86.0 °C	187 °F	Unannealed; ASTM D648
	@Thickness 3.18 mm	@Thickness 0.125 in	
Deflection Temperature at 1.8 MPa (264 psi)	52.0 °C	126 °F	Unannealed; ASTM D648
	@Thickness 3.18 mm	@Thickness 0.125 in	

Descriptive Properties	Value	Comments
Filler / Reinforcement	Clay Nano Filler	
Forms	Pellets	
Generic Material	PP, Unspecified	
Generic Name	Polypropylene, Unspecified (PP, Unspecified)	
Regional Availability	North America	
	South America	

Contact Songhan Plastic Technology Co.,Ltd.

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